

1. A curtailment module for enabling an energy provider to send a request to curtail energy use to a user, the curtailment module comprising:

an interface for electronic communications with a temperature control device;

a paging module for receiving the request from the energy provider through a paging  
5 network;

a processor in electronic communication with the paging module for receiving the request  
from the paging module;

a sound component in electronic communication with the processor for outputting an  
audio verification;

10 memory in electronic communication with the processor for storing a curtailment  
message and history data; and

a code generator stored in the memory and executable by the processor to generate a  
verification code using the curtailment message and the history data as inputs, the  
code generator also generating the audio verification based on the verification  
15 code to verify compliance with the request.

2. The curtailment module as defined in claim 1 wherein the memory is programmed with  
instructions to cause the curtailment module to receive the request from the energy provider.

20 3. The curtailment module as defined in claim 1 wherein the memory is programmed with  
instructions for communicating with the temperature control device.

4. The curtailment module as defined in claim 1 further comprising a display in electronic  
communication with the processor.

25 5. The curtailment module as defined in claim 1 further comprising an input device in electronic  
communication with the processor for enabling the user to enter a user input.

6. The curtailment module as defined in claim 1 wherein the memory is programmed with instructions to cause the processor to store the history data relating to the temperature control device in the memory.
- 5 7. The curtailment module as defined in claim 1, wherein the code generator uses a device ID in generating the verification code.
8. The curtailment module as defined in claim 1, wherein the sound component comprises a speaker and wherein the code generator causes audio verification sound to be output through the  
10 speaker.
9. The curtailment module as defined in claim 1, wherein the sound component comprises a speaker and wherein the code generator causes DTMF sound to be output through the speaker.
- 15 10. The curtailment module as defined in claim 1, wherein the code generator further displays the verification code on a display after generating the verification code.

11. A curtailment module for enabling an energy provider to send a curtailment message to a remote structure, the curtailment module comprising:

an interface for electronic communications with a temperature control device;

a paging module for receiving the curtailment message from the energy provider through

5 a paging network;

a processor in electronic communication with the paging module for receiving the curtailment message from the paging module;

a sound component in electronic communication with the processor for outputting an audio verification;

10 memory in electronic communication with the processor for storing the curtailment message and history data;

a code generator stored in the memory and executable by the processor to generate a verification code using the curtailment message and the history data as inputs, the code generator also generating the audio verification based on the verification code to verify compliance with the request;

15 a display in electronic communication with the processor for outputting information to a user; and

an input device in electronic communication with the processor for enabling the user to enter a user input.

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12. The curtailment module as defined in claim 11, wherein the memory is programmed with communication instructions for communicating with the temperature control device and for monitoring settings of the temperature control device.

25 13. The curtailment module as defined in claim 12, wherein the memory is programmed with history instructions for storing the history data relating to the temperature control device.

14. The curtailment module as defined in claim 13, wherein the sound component comprises a speaker and wherein the code generator causes audio verification sound to be output through the speaker when a user enters the user input to the input device.
- 5 15. The curtailment module as defined in claim 14 wherein the memory is programmed with display instructions to display the verification code on the display.

16. A curtailment module for enabling an energy provider to send a curtailment message to a remote structure, the curtailment module comprising:

means for interfacing the curtailment module with a temperature control device;

5 means for receiving the curtailment message from the energy provider through a paging network;

means for processing, the processing means being in electronic communication with the receiving means for receiving the curtailment message;

10 memory in electronic communication with the processing means, the memory being programmed with verification instructions to generate a verification code to verify compliance with the curtailment message;

means for generating an audio verification based on the verification code coupled to the processing means;

means for displaying information to a user coupled to the processing means; and

15 means for inputting by the user coupled to the processing means, the inputting means enabling the user to enter a user input.

17. The curtailment module as defined in claim 16 wherein the memory is programmed with communication instructions for communicating with the temperature control device and for monitoring settings of the temperature control device.

20 18. The curtailment module as defined in claim 17 wherein the memory is programmed with history instructions for storing history data relating to the temperature control device.

25 19. The curtailment module as defined in claim 18 wherein the verification instructions use the history data and the curtailment message and a device ID.

20. A method for requesting that energy use be curtailed at a structure and for verifying curtailment, the method comprising:

creating a curtailment message to send to the structure;

sending the curtailment message to the structure through a pager network;

5 receiving the curtailment message by a curtailment module at the structure;

displaying the curtailment message at the structure;

monitoring a temperature control device in electronic communication with the  
curtailment module;

saving history data that relates to settings from the temperature control device;

10 generating a verification code that verifies compliance with the curtailment message;

generating an audio verification based on the verification code; and

displaying the verification code at the structure for the user.

21. The method as defined in claim 20 further comprising using the history data, the curtailment  
15 message and a device ID in generating the verification code.

22. A combination temperature-control curtailment module for enabling an energy provider to send a curtailment message to a remote structure, the temperature-control curtailment module comprising:

a temperature control module for controlling the temperature of the remote structure;

5 a paging module for receiving the curtailment message from the energy provider through a paging network;

a processor in electronic communication with the paging module for receiving the curtailment message from the paging module;

10 a sound component in electronic communication with the processor for outputting an audio verification;

memory in electronic communication with the processor for storing the curtailment message and history data;

15 a code generator stored in the memory and executable by the processor to generate a verification code using the curtailment message and the history data as inputs, the code generator also generating the audio verification based on the verification code to verify compliance with the request;

a display in electronic communication with the processor for outputting information to a user; and

20 an input device in electronic communication with the processor for enabling the user to enter a user input.

23. The temperature-control curtailment module as defined in claim 22 wherein the memory is programmed with communication instructions for communicating with the temperature control module and for monitoring settings of the temperature control module.

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24. The temperature-control curtailment module as defined in claim 23 wherein the memory is programmed with history instructions for storing the history data relating to the temperature control module.

25. The temperature-control curtailment module as defined in claim 24 wherein the sound  
component comprises a speaker and wherein the code generator causes audio verification sound  
5 to be output through the speaker when a user enters the user input to the input device.

26. The temperature-control curtailment module as defined in claim 25 wherein the memory is  
programmed with display instructions to display the verification code on the display.